

Title (en)

ELECTROLUMINESCENT DEVICE AGING COMPENSATION WITH REFERENCE SUBPIXELS

Title (de)

ALTERUNGSKOMPENSATION EINES ELEKTROLUMINESZENZBAUELEMENTS MIT REFERENZSUBPIXELN

Title (fr)

COMPENSATION DE VIEILLISSEMENT DE DISPOSITIF ÉLECTROLUMINESCENT AVEC DES SOUS-PIXELS DE RÉFÉRENCE

Publication

**EP 2483885 A1 20120808 (EN)**

Application

**EP 10761102 A 20100924**

Priority

- US 56878609 A 20090929
- US 2010050162 W 20100924

Abstract (en)

[origin: US2011074750A1] An electroluminescent (EL) device including an illumination area having one or more primary EL emitters; a reference area having a reference EL emitter; a reference driver circuit for causing the reference EL emitter to emit light while the EL device is active; a sensor for detecting light emitted by the reference EL emitter; and a measurement unit for detecting an aging-related electrical parameter of the reference EL emitter while it is emitting light. The device further includes a controller for receiving an input signal for each primary EL emitter in the illumination area, forming a corrected input signal from each input signal using the detected light and the aging-related electrical parameter, and applying the corrected input signals to the respective primary EL emitters in the illumination area.

IPC 8 full level

**G09G 3/32** (2006.01); **G09G 3/30** (2006.01)

CPC (source: EP KR US)

**G09G 3/30** (2013.01 - EP KR US); **G09G 3/32** (2013.01 - KR); **G09G 3/3208** (2013.01 - EP KR US); **G09G 3/3225** (2013.01 - KR); **G09G 3/3233** (2013.01 - EP US); **G09G 2300/0413** (2013.01 - KR); **G09G 2300/0465** (2013.01 - EP KR US); **G09G 2320/0242** (2013.01 - EP KR US); **G09G 2320/029** (2013.01 - EP KR US); **G09G 2320/04** (2013.01 - KR); **G09G 2320/041** (2013.01 - EP KR US); **G09G 2320/043** (2013.01 - EP KR US); **G09G 2320/048** (2013.01 - KR); **G09G 2360/141** (2013.01 - EP KR US); **G09G 2360/145** (2013.01 - EP US)

Citation (search report)

See references of WO 2011041224A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**US 2011074750 A1 20110331**; **US 8339386 B2 20121225**; CN 102687193 A 20120919; EP 2483885 A1 20120808; EP 2483885 B1 20160727; JP 2013506168 A 20130221; KR 101711597 B1 20170302; KR 20120087138 A 20120806; TW 201117171 A 20110516; TW I443630 B 20140701; WO 2011041224 A1 20110407; WO 2011041224 A8 20120322; WO 2011041224 A8 20120524

DOCDB simple family (application)

**US 56878609 A 20090929**; CN 201080043292 A 20100924; EP 10761102 A 20100924; JP 2012532211 A 20100924; KR 20127010299 A 20100924; TW 99132821 A 20100928; US 2010050162 W 20100924